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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/659,453	09/11/2000	Dr. Bernhard Kaiser	Q60663	5829
7590 05/05/2004			EXAMINER	
Sughrue Mion Zinn Macpeak & Seas PLLC 2100 Pennsylvania Avenue NW			TRAN, QUOC DUC	
	C 20037-3213		ART UNIT PAPER NUMBER	
•			2643	: 1
			DATE MAILED: 05/05/2004	4 ' }

Please find below and/or attached an Office communication concerning this application or proceeding.

/L

	Application No.	Applicant(s)
	09/659,453	KAISER, DR. BERNHARD
Office Action Summary	Examiner	Art Unit
	Quoc D Tran	2643
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with th	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be only within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS first, cause the application to become ABANDO	days will be considered timely.  Tom the mailing date of this communication.  DNED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on 01 N	March 2004	
	s action is non-final.	
3) Since this application is in condition for allowa		prosecution as to the merits is
closed in accordance with the practice under	·	
Disposition of Claims		
4) ☐ Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	awn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Examin		
10) The drawing(s) filed on is/are: a) acc	cepted or b) $\square$ objected to by th	e Examiner.
Applicant may not request that any objection to the		• •
Replacement drawing sheet(s) including the correct		•
11) The oath or declaration is objected to by the E	xaminer. Note the attached Off	ce Action of form PTO-152.
Priority under 35 U.S.C. § 119		
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in Applic ority documents have been received in Application (PCT Rule 17.2(a)).	eation No. <u>09/659,453</u> . eived in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summ Paper No(s)/Mai	
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 8.</li> </ul>		al Patent Application (PTO-152)

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krank et al (6,002,755) in view of Smyth et al (6,347,224).

Consider claim 1, Krank et al teach a process for signaling cost information in a telecommunications network comprised a plurality of exchanges (*see abstract; Fig. 1*), wherein the process comprises: establishing a connection between a subscriber's terminal and an exchange of a plurality of exchanges, forwarding a tariff request for a to-be-completed telephone call <u>or</u> an on-going telephone call from a call handling function resident in the exchange to a tariff server, receiving a tariff response at the call handling function at the exchange from the tariff server for the requested connection, forwarding the tariff response from the call handling function to a CDR generating function in the exchange, forwarding the cost information from the CDR generating function to the cost communication of the exchange and communicating the cost information from the cost communication function to the subscriber's data terminal prior to the establishment of the to-be-completed telephone call or during the ongoing telephone call (see col. 2 line 52 – col. 4 line 7; col. 5 lines 21-35). It should be noted that the telecommunications exchanges are neither known or inherently for handling calls and for generating CDR that are send to the billing system.

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Krank et al shown that the tariff server (i.e., CHUN) is an integral of the exchange and that the service unit, which employ the charging device and the coupler, may be remotely located from the exchange. Krank et al did not suggest wherein the tariff is an independent tariff server connected to several of the exchanges in the telecommunication network and receiving tariff request from the exchanges. However, Smyth et al teach a charging system for the telecommunication network employing a charging control system that may be connected at the mobile switching center (MSC) (i.e., corresponding to an exchange in a fixed wireline) level in a network or may be reside at the MSC level. The charging control system exchanges traffic or price information to the MSCs (see col. 11 lines 53-60; col. 12 lines 26-30).

Therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to incorporate the teaching of Smyth et al into view of Krank et al in order to provide commonly access and commonly utilize it's resources.

Consider claim 2, Krank et al teach the process for signaling cost information wherein the tariff server access a subscriber database containing current tariff data (col. 5 lines 31-35).

Consider claim 3, Krank et al teach the process for signaling cost information wherein the current costs are updated upon the connection establishment and/or during the existing telephone call (col. 3 lines 32-44).

Consider claim 4, Krank et al teach the process for signaling cost information wherein the bill server updates the information stored on the tariff (col. 5 lines 23-60; Fig. 3). The service unit is interpreted as a bill server since the bill server is responsible for receiving tariff information and generates the charge information thereof.

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Consider claim 5, Krank et al teach a tariff server with connections to an exchange and to a bill server (see Fig. 3; col. 5 lines 47-60), the tariff server having a charging rate function which is connected to a subscriber database, and in response to a tariff request that is received from the exchange for a to-be-completed telephone call or an on-going telephone call, the charging rate function generates a tariff response that is used to determine the cost information of the to-be-completed telephone call or the on-going telephone call (see col. 2 line 52 – col. 4 line 7; col. 5 lines 21-35).

Krank et al shown that the tariff server (i.e., CHUN) is an integral of the exchange and that the service unit, which employ the charging device and the coupler, may be remotely located from the exchange. Krank et al did not suggest wherein the tariff is an independent tariff server connected to several of the exchanges in the telecommunication network and receiving tariff request from the exchanges. However, Smyth et al teach a charging system for the telecommunication network employing a charging control system that may be connected at the mobile switching center (MSC) (i.e., corresponding to an exchange in a fixed wireline) level in a network or may be reside at the MSC level. The charging control system exchanges traffic or price information to the MSCs (see col. 11 lines 53-60; col. 12 lines 26-30).

Therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to incorporate the teaching of Smyth et al into view of Krank et al in order to provide commonly access and commonly utilize it's resources.

Consider claim 6, Krank et al teach wherein the bill server updates current cost information that is stored in the subscriber database (see col. 3 lines 32-44).

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Consider claim 11, Krank et al teach wherein the current cost information is updated based upon the cost information received from the charging rate function (see col. 3 lines 32-44).

Consider claim 7, Krank et al teach an exchange for signaling cost information in a telecommunications network comprised a plurality of exchanges, wherein the exchange comprises: a call handling function that forwards a tariff request to a tariff server coupled to the exchange, wherein the call handling function receives the tariff response that is returned from the tariff server in response to the tariff request, a CDR generating function that receives the tariff response from the call handling function and generates cost information from the tariff response, and a cost communication function that communicates the cost information from the cost communication function to a subscriber's terminal (see col. 2 line 52 – col. 4 line 7; col. 5 lines 21-35). It should be noted that the telecommunications exchanges are neither known or inherently for handling calls and for generating CDR that are send to the billing system.

Krank et al shown that the tariff server (i.e., CHUN) is an integral of the exchange and that the service unit, which employ the charging device and the coupler, may be remotely located from the exchange. Krank et al did not suggest wherein the tariff is an independent tariff server connected to several of the exchanges in the telecommunication network and receiving tariff request from the exchanges. However, Smyth et al teach a charging system for the telecommunication network employing a charging control system that may be connected at the mobile switching center (MSC) (i.e., corresponding to an exchange in a fixed wireline) level in a network or may be reside at the MSC level. The charging control system exchanges traffic or price information to the MSCs (see col. 11 lines 53-60; col. 12 lines 26-30).

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Therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to incorporate the teaching of Smyth et al into view of Krank et al in order to provide commonly access and commonly utilize it's resources.

Consider claim 8, Krank et al teach the exchange wherein the CDR generating function updates the cost information upon establishment of a to-be-completed telephone call (col. 3 lines 32-44).

Consider claim 9, Krank et al teach the exchange wherein the CDR generating function updates the cost information during the pendency of an on-going telephone call (col. 3 lines 32-44).

3. Claims 10 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krank et al (6,002,755) in view of Smyth et al (6,347,224) and further in view of Cameron et al (6,317,490).

Consider claims 10 and 12, Krank and Smyth et al did not clearly suggest wherein the cost information from the CDR generating function is forwarded to a bill server, which updates the subscriber database resident on the tariff server with the forwarded cost information.

However, Cameron et al suggested such (col. 6 lines 1-14). Therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to utilize the teaching of Cameron et al into view of Krank and Smyth et al in order to provide user with real-time billing information.

# Response to Arguments

4. Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.

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#### Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 6. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231
Facsimile responses should be faxed to:
(703) 872-9306

Hand-delivered responses should be brought to:

Crystal Park II, 2121 Crystal Drive Arlington. VA., Sixth Floor (Receptionist)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Quoc Tran** whose telephone number is **(703) 306-5643**. The examiner can normally be reached on Monday-Thursday from 8:00 to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Curtis Kuntz**, can be reached on (703) 305-4708.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Technology Center 2600** whose telephone number is (703) 306-0377.

Quoc D. Tran

Patent Examiner AU 2643

April 29, 2004